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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|--|-----------------|----------------------|-------------------------|------------------|
| 09/870,085 | 05/30/2001 | Hiroyuki Yano | 790001-2004 | 6781 |
| 20999 7 | 590 11/04/2002 | | | |
| FROMMER 1 | LAWRENCE & HAUG | | EXAMINER | |
| 745 FIFTH AVENUE- 10TH FL. NEW YORK, NY 10151 | | · | PHAM, THANHHA S | |
| | | | ART UNIT | PAPER NUMBER |
| | | | 2813 | G |
| | | • | DATE MAILED: 11/04/2002 | 7 |

Please find below and/or attached an Office communication concerning this application or proceeding.

| | | Application No. | Applicant(s) | | | |
|---|--|---|---|--|--|--|
| | _ | 09/870,085 | YANO ET AL. | | | |
| | Office Action Summary | Examiner | Art Unit | | | |
| , | | Thanhha Pham | 2813 | | | |
| Period fo | The MAILING DATE of this communication app r Reply | ears on the cover sheet with the c 3010 | • | | | |
| A SHO THE N - Exter after - If the - If NO - Failur - Any re | ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. Issions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period veron to reply within the set or extended period for reply will, by statute eply received by the Office later than three months after the mailing dipatent term adjustment. See 37 CFR 1.704(b). | Y IS SET TO EXPIRE ** MONTH (36(a). In no event, however, may a reply be time, within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE | s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133). | | | |
| 1)⊠ | Responsive to communication(s) filed on 06 A | <u> August 2002</u> . | | | | |
| 2a) <u></u> ☐ | This action is FINAL . 2b) Th | is action is non-final. | | | | |
| 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims | | | | | | |
| • | | nnlication | | | | |
| 4) ☐ Claim(s) 1-6 and 23-33 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. | | | | | | |
| | , | wii irom consideration. | | | | |
| 5) Claim(s) is/are allowed. | | | | | | |
| | Claim(s) is/are rejected. | | | | | |
| | 7) Claim(s) is/are objected to. | | | | | |
| 8) Claim(s) <u>1-6 and 23-33</u> are subject to restriction and/or election requirement. Application Papers | | | | | | |
| 9) The specification is objected to by the Examiner. | | | | | | |
| 10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. | | | | | | |
| Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). | | | | | | |
| 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner. | | | | | | |
| If approved, corrected drawings are required in reply to this Office action. | | | | | | |
| 12) The oath or declaration is objected to by the Examiner. | | | | | | |
| Priority under 35 U.S.C. §§ 119 and 120 | | | | | | |
| 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). | | | | | | |
| a) ☐ All b) ☐ Some * c) ☐ None of: | | | | | | |
| 1. Certified copies of the priority documents have been received. | | | | | | |
| 2. Certified copies of the priority documents have been received in Application No | | | | | | |
| 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. | | | | | | |
| 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). | | | | | | |
| a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. | | | | | | |
| Attachment(s) | | | | | | |
| 2) Notice | e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s)-(PTO-1449) Paper No(s) _ | 5) Notice of Informal I | r (PTO-413) Paper No(s) Patent Application (PTO-152) | | | |



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DETAILED ACTION

Election/Restrictions

- 1. This application contains claims directed to the following patentably distinct species of the claimed invention:
 - Species I, claims 1-5, 23, and 27-30, drawn a method of manufacturing a semiconductor device, the 1st embodiment, including depositing polysilicon followed by selectively grinding or polishing the peripheral portion and the beveled portion on the main surface side of the target substrate for forming a trench capacitor.
 - Species II, claims 1, 6, 24-26, and 31-32, drawn to a method of manufacturing a semiconductor device, the 2nd embodiment, including depositing a metal film of copper followed by selectively grinding or polishing the peripheral portion and the beveled portion on the main surface side of the target substrate.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claim 1 is generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim

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is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

- 2. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).
- 3. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

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4. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Thanhha Pham whose telephone number is (703) 308-

6172. The examiner can normally be reached on Monday-Thursday 8:00 AM - 7:00

PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Carl Whitehead, Jr., can be reached on (703) 308-4940. The fax phone

numbers for the organization where this application or proceeding is assigned are (703)

308-3432 for regular communications and (703) 308-7725 for After Final

communications.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is (703) 308-

0956.

Thanhha Pham

October 30, 2002

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CARL WHITEHEAD, JR.
SUPERVISORY PATENT EXAMINEF:

TECHNOLOGY CENTER 2800